

**Amendment to the Claims:**

Please amend the claims as follows:

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Currently Amended) A surgical headlight system attachable to a surgeon's head band or cap for illumination purposes comprising:

a headlight housing, said headlight housing including at least one LED light source and a fiber optic rod disposed directly adjacent to and abutting against said LED light source;

a lens assembly in direct optical communication with the output of said fiber optic rod;

a light path from said lens assembly in said headlight housing to emit light outside said headlight housing to a surgical area; and

an electrical power source that is variable for providing power to said LED light source connected to said LED light source.;

6. The surgical headlight assembly as in claim 1, wherein  
said fiber optic rod comprising a bundle or bundles of a plurality of fiber optic strands.;

~~The compact headlight of claim 6, wherein said fiber optic rod includes including:~~

a distal end serving as an output of light from the LED light source; and

a proximal end that is a hemispherical concave shape.

8. (Cancelled)

9. (Cancelled)

10. (Currently Amended) A surgical headlight system attachable to a surgeon's head band or cap for illumination purposes comprising:

a headlight housing, said headlight housing including at least one LED light source and a fiber optic rod disposed directly adjacent to and abutting against said LED light source;

a lens assembly in direct optical communication with the output of said fiber optic rod;

a light path from said lens assembly in said headlight housing to emit light outside said headlight housing to a surgical area;

an electrical power source that is variable for providing power to said LED light source connected to said LED light source;

9. ~~The surgical headlight assembly as in claim 1, wherein~~

~~said lens assembly comprising a first collimating lens and a second collimating lens; and~~

~~The surgical headlight assembly as in claim 9, wherein~~

~~the first collimating lens is being in direct physical contact with a distal end~~

and output of said fiber optic rod so that the distal end of said fiber optic rod abuts against said first collimating lens.

11. (Currently Amended) A surgical headlight system attachable to a surgeon's head band or cap for illumination purposes comprising:

a headlight housing, said headlight housing including at least one LED light source and a fiber optic rod disposed directly adjacent to and abutting against said LED light source;

a lens assembly in direct optical communication with the output of said fiber optic rod;

a light path from said lens assembly in said headlight housing to emit light outside said headlight housing to a surgical area;

an electrical power source that is variable for providing power to said LED light source connected to said LED light source;.

6. The surgical headlight assembly as in claim 1, wherein  
said fiber optic rod comprising a bundle or bundles of a plurality of fiber optic strands;.

The compact headlight assembly as in claim 6, wherein  
said fiber rod comprising a distal end serving as an output of light from the LED light source;

a proximal end that is a hemispherical concave shape; and

The surgical headlight assembly as in claim 7, wherein

the hemispherical concave shape of a proximal end of the fiber optic rod

eovers covering the surface of the LED light source so that each fiber optic strand can transmit the maximum amount of light from said LED to a distal opening of the headlight housing.

12. (Cancelled)

13. (Currently Amended) A compact headlight for surgery comprising:  
a housing with an opening for emitting light;  
an LED light source in direct physical contact with and abutting against a  
fiber optic rod that forms a direct light optical channel;  
a pair of collimating lenses in direct optical communication with said fiber  
optic rod;  
wherein said LED light source, the pair of collimating lenses, and the fiber  
optic rod are all self-contained in said small housing;  
a power source that is connected to the LED light source to provide power  
to said LED light source;

The surgical headlight assembly as in claim 5, wherein  
said fiber optic rod comprising a bundle or bundles of a plurality of fiber  
optic strands;

The compact headlight of claim 12, wherein  
said fiber optic rod includes including:  
a distal end serving as an output of light from the LED light source; and  
a proximal end that is a hemispherical concave shape.

14. (Cancelled)

15. (Currently Amended) A compact headlight for surgery comprising:  
a housing with an opening for emitting light;  
an LED light source in direct physical contact with and abutting against a  
fiber optic rod that forms a direct light optical channel;  
a pair of collimating lenses in direct optical communication with said fiber  
optic rod;  
wherein said LED light source, the pair of collimating lenses, and the fiber  
optic rod are all self-contained in said small housing;  
a power source that is connected to the LED light source to provide power  
to said LED light source; and

~~The surgical headlight assembly as in claim 5, wherein~~  
the first collimating lens is being in direct physical contact with the distal  
end and output of said fiber optic rod so that the distal end of said fiber optic rod abuts  
against one side of said first collimating lens.

16. (Currently Amended) The surgical headlight assembly as in claim 13,  
wherein the hemispherical concave shape of the proximal end of the fiber optic rod is  
covers the surface of the LED light source so that each fiber optic strand can transmit the  
maximum amount of light from said LED to a distal opening of the lightweight housing.

17. (Cancelled)